BRUHAT BENGALURU MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK : Improvements to Main roads and Cross roads and providing Kerb stones at Vinayaka Nagara 1st, 5th, 3rd cross roads in Kempegowda ward No.1.

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Estimate Cost Rs. 49.00 Lakhs Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications MORTH Chapter 3 (P.141/I.19.1) SR 2018-19								
	Vinayaka Nagara	Cum							
	1st Cross		1	75.00	6.00	0.20	90.00		
	3rd Cross		1	75.00	6.00	0.20	90.00		
	5th Cross		1	75.00	6.10	0.20	91.50		
	Basic Rate	130.00					**271.50**	137.80	**37413.00**
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 SR 2018-19								
	Vinayaka Nagara Main Road	Cum							
	Culvert		1	160.00	1.05	0.95	159.60		
			6	8.00	1.65	1.20	95.04		
	Basic Rate Rs	299.00					**254.64**	**316.94**	**80706.00**
	Add Area Weightage @ 6%	17.94							
	Total	**316.94**							
3	KSRB4.1.3: Providing and laying position plain cement concrete of Mix 1:4:8 with OPC cement @180Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed , concrete laid in layers not exeecding 15 cms, thick, well compacted , in foundation , including cost of all materials, Labour , HOM of Machinery, Curing complete as per Specifications. Specifications No. KBS 4.1, 4.2 (P12/4.3). SR 2018-19								
	Vinayaka Nagara	Cum							
	1st Cross		1	75.00	6.00	0.15	67.50		
	3rd Cross		1	75.00	6.00	0.15	67.50		
	5th Cross		1	75.00	6.10	0.15	68.63		
	Vinayaka Nagara Main Road		1	160.00	1.05	0.15	25.20		
	Culvert		6	8.00	1.65	0.15	11.88		
	Basic Rate	5102.00					**240.71**	5408.12	**1301762.00**
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200 Page No 271 Ite mo 37.59.2 SR 2018-19 (wall and bottom thickness 15cm.								
	Bottom raft	Cum							

	Description of Item	Unit	No.	L	B	D	Qty	Rate	Amount
	Vinayaka Nagara Main Road								
	Culvert		1	160.00	0.90	0.15	21.60		
	Side wall		6	8.00	1.50	0.15	10.80		
	Vinayaka Nagara Main Road								
	Culvert		2	160.00	0.15	0.75	36.00		
			12	8.00	0.25	0.80	19.20		
	Basic Rate	6670.00				**Total**	**87.60**	7070.20	619350.00
	Add Area Weightage @ 6%	400.20							
	Total	**7070.20**							
5	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. TMT bars Fe 500 KBS 4.6.3 Page No. 18/ Item No. 4.46/ PWD SR 2018-19								
	for Drain 50kg/cum	Tonne							
	for culvert 60kg/cum		1	57.60	50.00		2880.00		
	Total		1	30.00	60.00		1800.00		
							4680.00		
	Basic Rate	70966.00					**4.68**	75223.96	**352048.00**
	Add Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
6	Supplying and fixing **precast** rainforced concrete slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials (Drain covering slab)								
		Sqm							
	New Drain								
	Vinayaka Nagara Main Road		1	160.00	0.75		120.00		
	Data rate	2337.00				**Total**	**120.00**	2337.00	**280440.00**
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
	Culvert	Sqm							
			6	8.00	1.50		72.00		
	Data rate	5418.00					**72.00**	5418.00	**390096.00**
8	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum), , No. 174/ Item No. 22 6.1) SR 2018-19								
	Vinayaka Nagara								
	1st Cross	Cum							
	3rd Cross		1	75.00	6.00	0.125	56.25		
	5th Cross		1	75.00	6.00	0.125	56.25		
			1	75.00	6.10	0.125	57.19		

	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate	4916.00					169.69	5210 96	884235.00
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ SR 2018-19								
	Shivanahalli and Basaveshwara Nagara area	No	1	340.00			340.00		
				No of kerb stone			340.00		
						Say	755.56 755.00	432.48	326522.00
	Basic Rate	408.00							
	Area Weightage @ 6%	24.48							
	Total	**432.48**							
0	KSRB 15-19 1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Item no 15.80 SR 2018-19								
		sqm	1	340.00		0.40	136.00		
							136.00	39 22	**5334.00**
	Basic Rate	37.00							
	Area Weightage @ 6%	2.22							
	Total	**39.22**							
1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Item no 24.1 SR 2018-19								
		sqm							
						Qty vide Item No.18	**136.00**	84.80	**11533.00**
	Basic Rate	80.00							
	Area Weightage @ 6%	4 80							
	Total	**84.80**							
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1) SR 2018-19								
		Cum							
	Basic Rate for loading and unloading	57 00				Qty Vide Item No 1+2	**526.14**	87.56	**46067.00**
	Basic Rate for Haulage upto 8 00 k.m 1 28 X 2 50 X 8	25.60							
	Basic Rate	82.60							
	Area Weightage 6%	4 96							
	Grand Total	87.56							

	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
4	GST of 12% as per Govt Letter No PWD 65 RDF 2017 Dated 11-10-2018						Sub total		4335506.00
	DPR and PMC charges 1%								520260.72
5	Miscellaneous and unforeseen charges	Ls							
									43355 06
									878 22
							Total Ammount Rs.		4900000.00

(Rupees Fourty Nine Lakhs only)

CERTIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2018-19
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.1

Executive Engineer
Yelahanka-Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval

Accorded For RS 49.00 lacks only
Head of A/C P3521
CER NO :TS/64/E-191 Dt: 07.12.18

TA

CE (YNK)

Technical Sanction

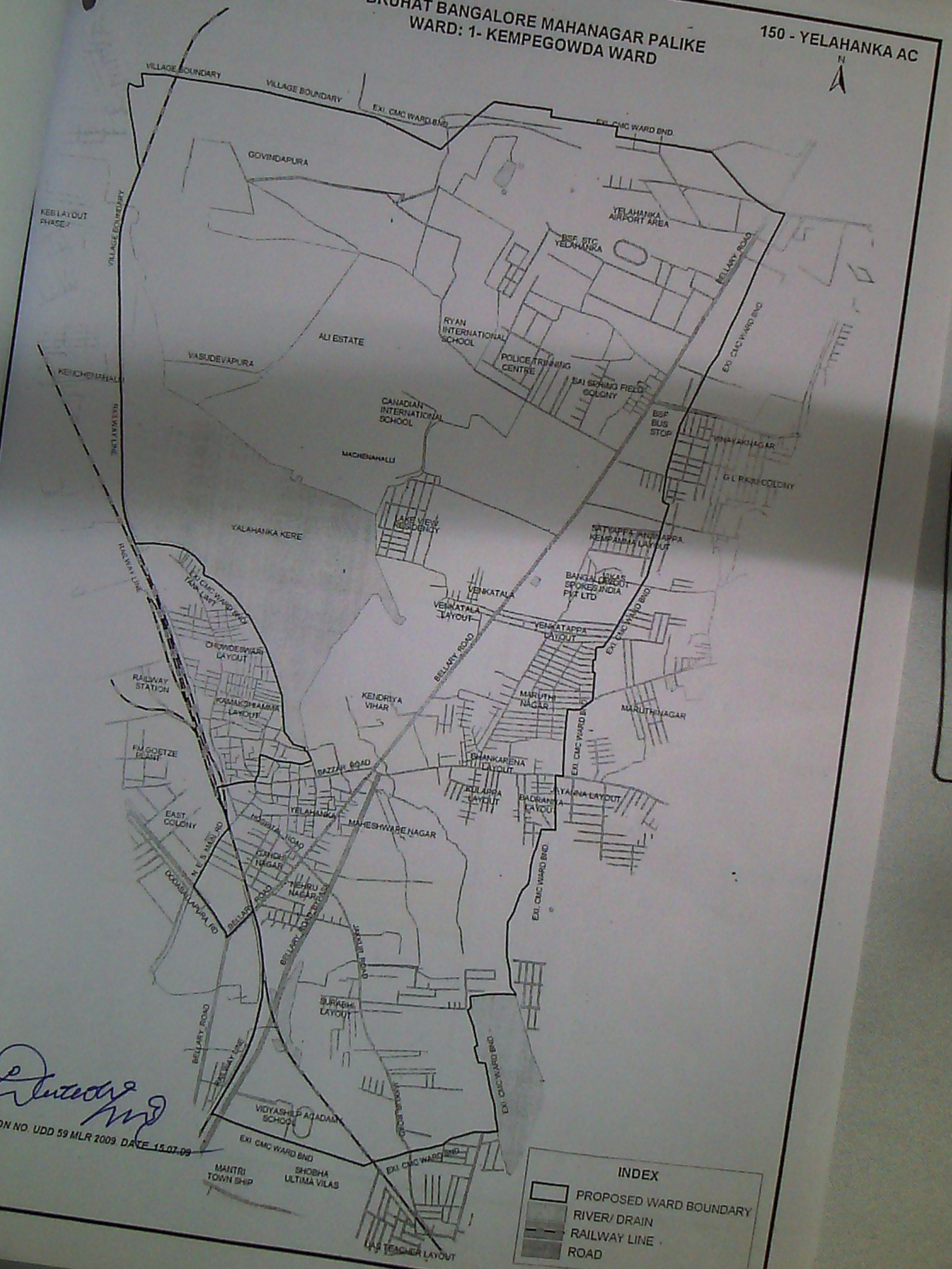
Accorded For RS 49.00 lacks only
Head of A/C P3521
CER NO :TS/129/18-19 Dt: 07.12.18

TA

CE (YNK)

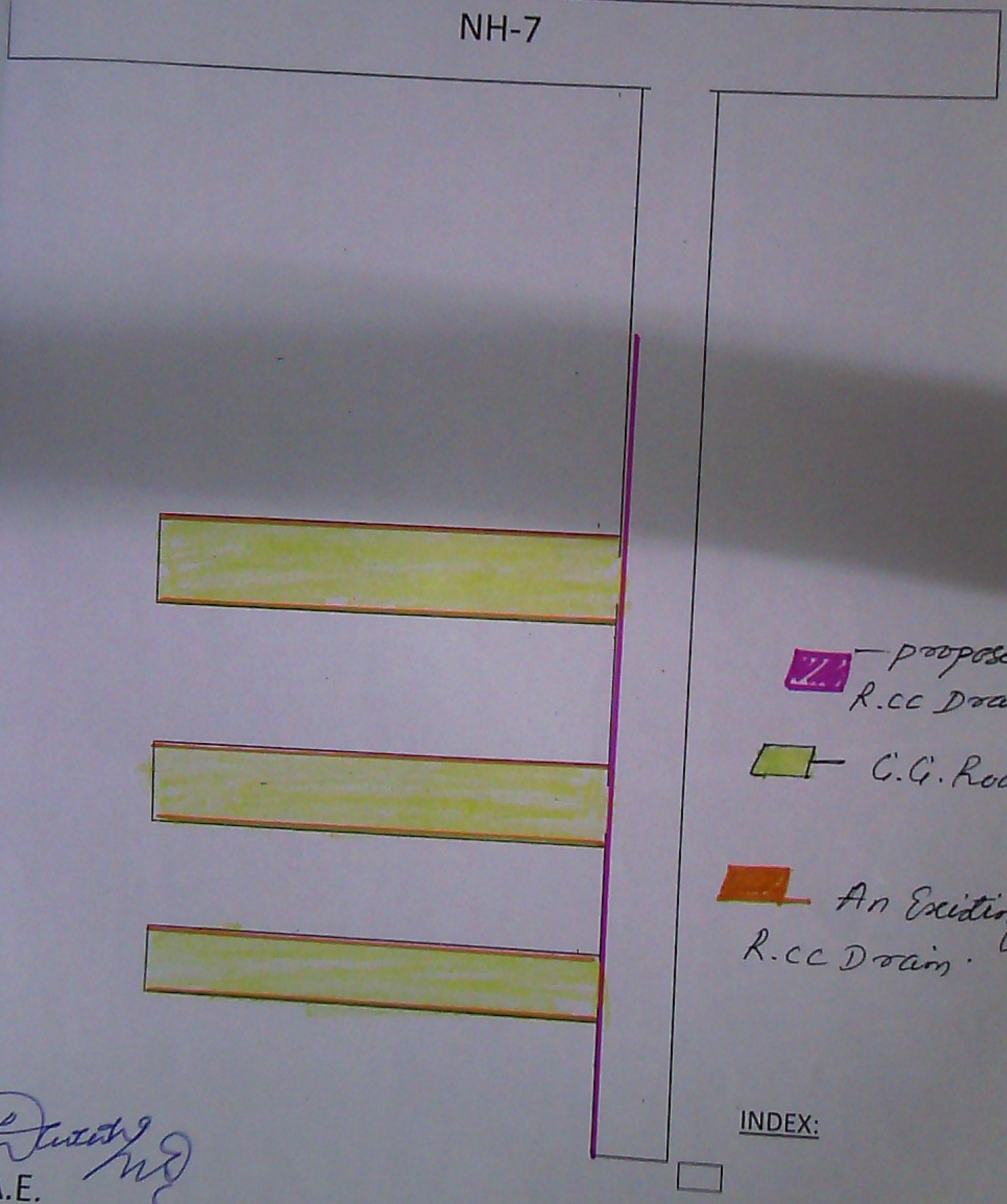
BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 1- KEMPEGOWDA WARD

150 - YELAHANKA AC



FICATION NO. UDD 59 MLR 2009 DATE 15.07.09

Name of work : Improvements to main road cross roads and providing kerb s●nes at vianayaka nagara 1st, 5th 3rd cross roads in kempegwoda ward no -01



BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : Improvements to Roads and Drains at Lake veiw layout and surrounding areas in Kempegowda ward No.1.

Estimate Cost Rs. 49.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 SR 2018-19								
		Cum							
	New Drains								
			2	190.00	1.05	0.95	379.05		
			2	120.00	1.05	0.95	239.40		
	Culvert		2	8.00	1.65	1.20	31.68		
							650.13	**316.94**	**206052.00**
	Basic Rate Rs	299.00							
	Add Area Weightage @ 6%	17.94							
	Total	**316.94**							
3	KSRB4.1.3: Providing and laying position plain cement concrete of Mix 1:4:8 with OPC cement @180Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed , concrete laid in layers not exeecding 15 cms, thick, well compacted , in foundation , including cost of all materials, Labour , HOM of Machinery, Curing complete as per Specifications. Specifications No. KBS 4.1, 4.2 (P12/4.3). SR 2018-19								
	for RCC drain								
			2	190.00	1.05	0.15	59.85		
			2	120.00	1.05	0.15	37.80		
	Culvert		2	8.00	1.65	0.15	3.96		
							101.61	5408.12	**549519.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200 Page No 271 Ite mo 37.59.2 SR 2018-19 (wall and bottom thickness 15cm.								
		Cum							
	Bottom raft								
	for RCC drain								
			2	190.00	0.75	0.15	42.75		
			2	120.00	0.75	0.15	27.00		
	Culvert		2	8.00	1.50	0.15	3.60		
	Side wall								
	New Drains								
			4	190.00	0.15	0.60	68.40		
			4	120.00	0.15	0.60	43.20		
	Culvert		4	8.00	0.25	0.80	6.40		
						Total	**191.35**	7070.20	**1352883.00**
	Basic Rate	6670.00							
	Add Area Weightage @ 6%	400.20							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Total	**7070.20**							

SRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, ling, hooking, placing in position, lapping and / or welding wherever required, tying with nding wire and anchoring to the adjoining members wherever necessary complete as per esign (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, OM of machinery complete as per specifications. Specification No. TMT bars Fe 500 KBS .6.3 Page No 18/ Item No. 4 46/ PWD SR 2018-19

	Tonne							
or Drain 50kg/cum		1	181.35	50.00		9067.50		
or culvert 60kg/cum		1	10.00	60.00		600.00		
Total						**9667.50**		
						9.67	75223.96	**727228.00**
Basic Rate	70966.00							
Add Area Weightage @ 6%	4257.96							
Total	**75223.96**							

Supplying and fixing **precast** rainforced concrete slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.(Drain covering slab)

	Sqm							
		2	190.00	0.75		285.00		
		2	120.00	0.75		180.00		
					Total	**465.00**	2337.00	**1086705.00**
Data rate	2337.00							

Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-

	Sqm							
		2	8.00	1.50		24.00		
						24.00	5418.00	**130032.00**
Data rate	5418.00							

Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ SR 2018-19

	No							
		1	223.00			223.00		
						223.00		
			No of kerb stone			495.56		
					Say	495.00	432.48	**214078.00**
Basic Rate	408.00							
Area Weightage @ 6%	24.48							
Total	**432.48**							

0 KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Item no 15.80 SR 2018-19

	sqm						
		1	223.00		0.40	89.20	

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
						89.20	39.22	**3498.00**
Basic Rate	37.00							
Area Weightage @ 6%	2.22							
Total	**39.22**							
KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Item no 24.1 SR 2018-19								
	sqm							
					Qty vide Item No.18	**89.20**	84.80	**7564.00**
Basic Rate	80.00							
Area Weightage @ 6%	4.80							
Total	**84.80**							
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1) SR 2018-19								
	Cum							
					Qty Vide Item No.1	**650.13**	87.56	**56923.00**
Basic Rate for loading and unloading	57.00							
Basic Rate for Haulage upto 8.00 k.m =1.28 X 2.50 X 8	25.60							
Basic Rate	82.60							
Area Weightage 6%	4.96							
Grand Total	87.56							
						Sub total		**4334482.00**
14 GST of 12% as per Govt Letter No PWD 65 RDF 2017 Dated 11-10-2018								**520137.84**
DPR and PMC Charges 1%								
15 Miscellaneous and unforeseen charges	Ls							43344.82
								2035.34
						Total Ammount Rs.		**4900000.00**

(Rupees Fourty Nine Lakhs only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2018-19
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.1

Executive Engineer
Yelahanka-Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval

Accorded For RS 49: a/w/archpanty
Head of A/C P3521
CER NO AE/65/18-19 **Dt.** 07.12.18

TA CE (YNK)

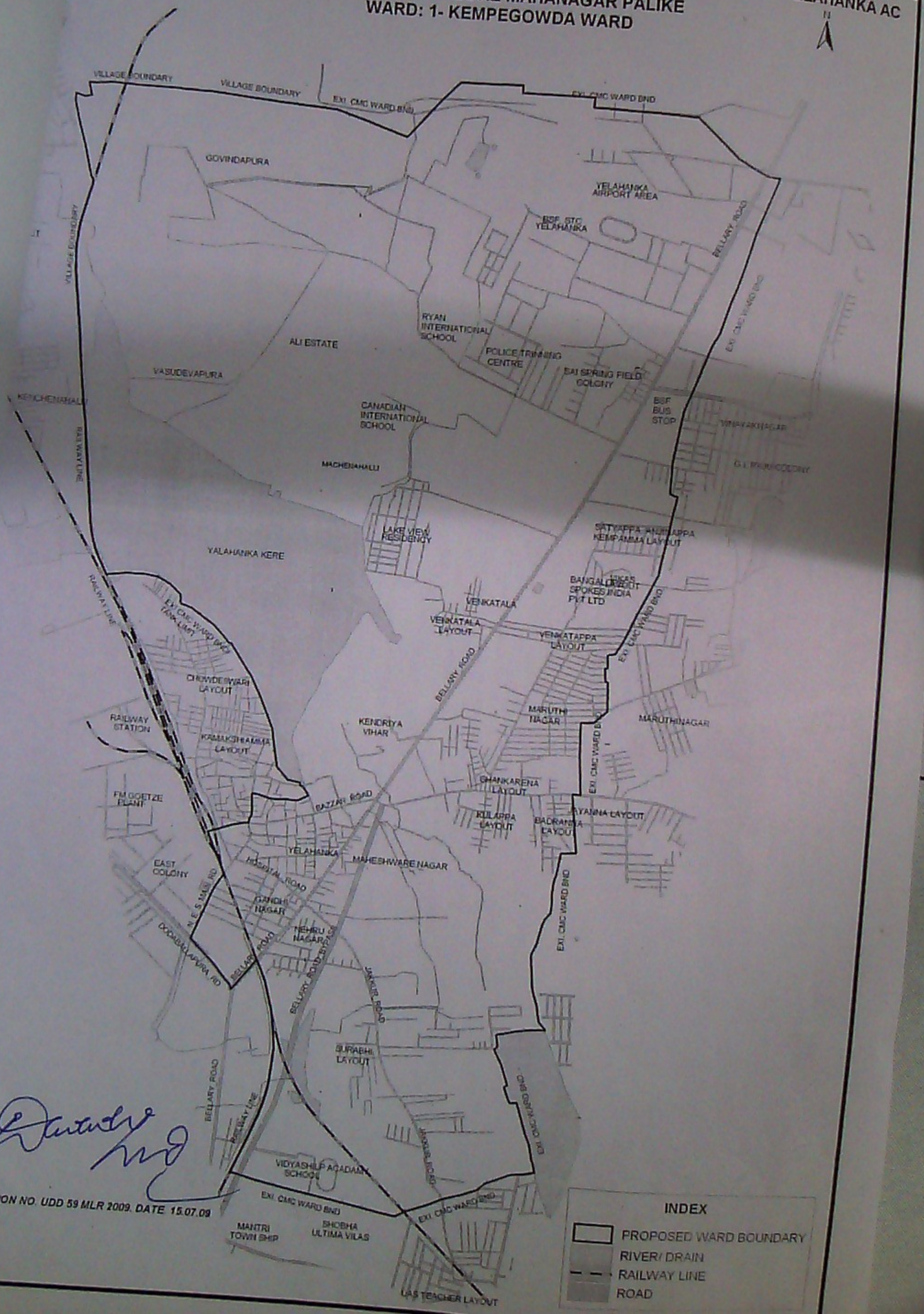
Technical Sanction

Accorded For RS 49: a/w/archpanty
Head of A/C P3521
CER NO TS/128/18-19 **Dt.** 07.12.18

TA CE (YNK)

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 1- KEMPEGOWDA WARD

150 - YELAHANKA AC



NOTIFICATION NO. UDD 59 MLR 2009. DATE 15.07.09